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**1  A framework for event-based software integration**                                          ◼

Daniel J. Barrett, Lori A. Clarke, Peri L. Tarr, Alexander E. Wise

October 1996 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 5 Issue 4

**Publisher:** ACM Press

Full text available: 📄 pdf(413.46 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Although event-based software integration is one of the most prevalent approaches to loose integration, no consistent model for describing it exists. As a result, there is no uniform way to discuss event-based integration, compare approaches and implementations, specify new event-based approaches, or match user requirements with the capabilities of event-based integration systems. We attempt to address these shortcomings by specifying a generic framework for event-based integration< ...

**Keywords**: CORBA, FIELD, Polylith, control integration, event-based systems, interoperability, reference model, software integration

**2  An Internet-based negotiation server for e-commerce**                                        ◼

Stanley Y.W. Su, Chunbo Huang, Joachim Hammer, Yihua Huang, Haifei Li, Liu Wang, Youzhong Liu, Charnyote Pluempitiwiriyawej, Minsoo Lee, Herman Lam

August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 1

**Publisher:** Springer-Verlag New York, Inc.

Full text available: 📄 pdf(355.19 KB)   Additional Information: full citation, abstract, citings, index terms

This paper describes the design and implementation of a replicable, Internet-based negotiation server for conducting bargaining-type negotiations between enterprises involved in e-commerce and e-business. Enterprises can be buyers and sellers of products/services or participants of a complex supply chain engaged in purchasing, planning, and scheduling. Multiple copies of our server can be installed to complement the services of Web servers. Each enterprise can install or select a trusted negotia ...

**Keywords**: Constraint evaluation, Cost- benefit analysis, Database, E-commerce, Negotiation policy and strategy, Negotiation protocol

**3**   A graphical definition of authorization schema in the DTAC model

Jonathon E. Tidswell, John M. Potter
May 2001 **Proceedings of the sixth ACM symposium on Access control models and technologies**
**Publisher**: ACM Press
Full text available: pdf(186.83 KB)   Additional Information: full citation, abstract, references, index terms

The specification of constraint languages for access control models has proven to be difficult but remains necessary for safety and for mandatory access control policies. While the authorisation relation $(Subject \times Object \rightarrow \pow Right)$ defines the authorised permissions an authorisation schema defines how the various concepts (such as subjects, users, roles, labels) are combined to form a complete access control model.Using examples drawn from common access contr ...

**Keywords**: DTAC, access control, computer security, constraints, dynamic, graphs, roles, schema, type

**4**   Distributed systems: Adaptive domain model: dealing with multiple attributes of self-managing distributed object systems

Pavel Motuzenko
September 2003 **Proceedings of the 1st international symposium on Information and communication technologies ISICT '03**
**Publisher**: Trinity College Dublin
Full text available: pdf(245.38 KB)   Additional Information: full citation, abstract, references

Self-managing software has emerged as modern systems have become more complex. Some of the distributed object systems may contain thousands of objects deployed on tens or even hundreds hosts. Development and support of such systems often costs a lot. To solve this issue the systems, which are capable supporting multiple self-managing attributes, should be created. In the paper, the Adaptive domain concept is introduced as an extension to the basic domain concept to support a generic adaptation e ...

**5**   The Logical Record Access Approach to Database Design

Toby J. Teorey, James P. Fry
June 1980 **ACM Computing Surveys (CSUR)**, Volume 12 Issue 2
**Publisher**: ACM Press
Full text available: pdf(2.81 MB)   Additional Information: full citation, references, citings, index terms

**6**   The HiPAC project: combining active databases and timing constraints

M. J. Carey, M. Livny, R. Jauhari
March 1988 **ACM SIGMOD Record**, Volume 17 Issue 1
**Publisher**: ACM Press
Full text available: pdf(1.39 MB)   Additional Information: full citation, abstract, citings, index terms

The HiPAC (High Performance ACtive database system) project addresses two critical problems in time-constrained data management: the handling of timing constraints in databases, and the avoidance of wasteful polling through the use of situation-action rules that are an integral part of the database and are monitored by DBMS's condition monitor. A rich knowledge model provides the necessary primitives for definition of timing constraints, situation-action rules, and precipitating events. The ...

**7**   Requirements interaction management

William N. Robinson, Suzanne D. Pawlowski, Vecheslav Volkov

June 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 2
**Publisher:** ACM Press
Full text available: pdf(1.24 MB)    Additional Information: full citation, abstract, references, index terms

Requirements interaction management (RIM) is the set of activities directed toward the discovery, management, and disposition of critical relationships among sets of requirements, which has become a critical area of requirements engineering. This survey looks at the evolution of supporting concepts and their related literature, presents an issues-based framework for reviewing processes and products, and applies the framework in a review of RIM state-of-the-art. Finally, it presents seven researc ...

**Keywords:** KAOS, KATE, Oz, Requirements engineering, Telos, WinWin, analysis and design, composite system, deficiency driven design, dependency analysis, distributed intentionality, interaction analysis, software cost reduction (SCR)., system architecture, system specification, viewpoints

**8**  Communication design for electronic negotiations on the basis of XML schema
Michael Ströbel
April 2001 **Proceedings of the 10th international conference on World Wide Web**
**Publisher:** ACM Press
Full text available: pdf(214.16 KB)   Additional Information: full citation, references, index terms

**Keywords:** XML, application framework, electronic negotiation, ontology

**9**  Group and topic discovery from relations and text
Xuerui Wang, Natasha Mohanty, Andrew McCallum
August 2005 **Proceedings of the 3rd international workshop on Link discovery LinkKDD '05**
**Publisher:** ACM Press
Full text available: pdf(213.44 KB)   Additional Information: full citation, abstract, references, index terms

We present a probabilistic generative model of entity relationships and textual attributes that simultaneously discovers groups among the entities and topics among the corresponding text. Block-models of relationship data have been studied in social network analysis for some time. Here we simultaneously cluster in several modalities at once, incorporating the words associated with certain relationships. Significantly, joint inference allows the discovery of groups to be guided by the emerging to ...

**Keywords:** graphical models, relational learning, text modeling

**10**  Intrusion detection: Anomaly detection of web-based attacks
Christopher Kruegel, Giovanni Vigna
October 2003 **Proceedings of the 10th ACM conference on Computer and communications security**
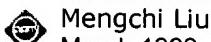**Publisher:** ACM Press
Full text available: pdf(252.97 KB)   Additional Information: full citation, abstract, references, citings, index terms

Web-based vulnerabilities represent a substantial portion of the security exposures of computer networks. In order to detect known web-based attacks, misuse detection systems are equipped with a large number of signatures. Unfortunately, it is difficult to keep up with the daily disclosure of web-related vulnerabilities, and, in addition,

vulnerabilities may be introduced by installation-specific web-based applications.
Therefore, misuse detection systems should be complemented with anomaly dete ...

**Keywords**: anomaly detection, network security, world-wide web

**11** Deductive database languages: problems and solutions

Mengchi Liu
March 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 1
**Publisher**: ACM Press

Full text available: pdf(254.50 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

Deductive databases result from the integration of relational database and logic
programming techniques. However, significant problems remain inherent in this simple
synthesis from the language point of view. In this paper, we discuss these problems from
four different aspects: complex values, object orientation, higher-orderness, and updates.
In each case, we examine four typical languages that address the corresponding issues.

**Keywords**: complex object databases, deductive databases, inheritance, logic
programming, nested relational databases, object-oriented databases

**12** A framework for modeling and evaluating automatic semantic reconciliation

Avigdor Gal, Ateret Anaby-Tavor, Alberto Trombetta, Danilo Montesi
March 2005 **The VLDB Journal — The International Journal on Very Large Data Bases**,
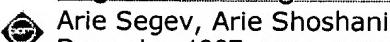Volume 14 Issue 1
**Publisher**: Springer-Verlag New York, Inc.
Full text available: pdf(472.75 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>

The introduction of the Semantic Web vision and the shift toward machine understandable
Web resources has unearthed the importance of automatic semantic reconciliation.
Consequently, new tools for automating the process were proposed. In this work we
present a formal model of semantic reconciliation and analyze in a systematic manner the
properties of the process outcome, primarily the inherent uncertainty of the matching
process and how it reflects on the resulting mappings. An important featur ...

**Keywords**: Mapping, Ontology versioning, Semantic interoperability

**13** Logical modeling of temporal data

Arie Segev, Arie Shoshani
December 1987 **ACM SIGMOD Record , Proceedings of the 1987 ACM SIGMOD
international conference on Management of data SIGMOD '87**, Volume
16 Issue 3
**Publisher**: ACM Press

Full text available: pdf(1.44 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

In this paper we examine the semantics and develop constructs for temporal data
independent of any traditional data model, such as the relational or network data models.
Unlike many other works which extend existing models to support temporal data, our
purpose is to characterize the properties of temporal data and operators over them
without being influenced by traditional models which were not specifically designed to
model temporal data. We develop data constructs that represent sequences ...

**14**
Meta data management: Statistical schema matching across web query interfaces

Bin He, Kevin Chen-Chuan Chang
June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on
Management of data**
**Publisher:** ACM Press

Full text available: 📄 pdf(294.12 KB)     Additional Information: full citation, abstract, references, citings, index terms

Schema matching is a critical problem for integrating heterogeneous information sources. Traditionally, the problem of matching multiple schemas has essentially relied on finding pairwise-attribute correspondence. This paper proposes a different approach, motivated by integrating large numbers of data sources on the Internet. On this "deep Web," we observe two distinguishing characteristics that offer a new view for considering schema matching: First, as the Web scales, there are ample sources t ...

**15** Selected IR-Related Dissertation Abstracts

Susanne M. Humphrey
November 1990 **ACM SIGIR Forum**, Volume 24 Issue 3
**Publisher:** ACM Press

Full text available: 📄 pdf(2.27 MB)     Additional Information: full citation, abstract

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**16** XSQ: A streaming XPath engine

Feng Peng, Sudarshan S. Chawathe
June 2005 **ACM Transactions on Database Systems (TODS)**, Volume 30 Issue 2
**Publisher:** ACM Press

Full text available: 📄 pdf(1.37 MB)     Additional Information: full citation, abstract, references, index terms

We have implemented and released the XSQ system for evaluating XPath queries on streaming XML data. XSQ supports XPath features such as multiple predicates, closures, and aggregation, which pose interesting challenges for streaming evaluation. Our implementation is based on using a hierarchical arrangement of augmented finite state automata. A design goal of XSQ is buffering data for the least amount of time possible. We present a detailed experimental study that characterizes the performance of ...

**Keywords**: XPath, streaming processing

**17** Multi Relational Data Mining (MRDM): Probabilistic logic learning

Luc De Raedt, Kristian Kersting
July 2003 **ACM SIGKDD Explorations Newsletter**, Volume 5 Issue 1
**Publisher:** ACM Press

Full text available: 📄 pdf(1.98 MB)     Additional Information: full citation, abstract, references, citings

The past few years have witnessed an significant interest in probabilistic logic learning, i.e. in research lying at the intersection of probabilistic reasoning, logical representations, and machine learning. A rich variety of different formalisms and learning techniques have been developed. This paper provides an introductory survey and overview of the state-of-the-art in probabilistic logic learning through the identification of a number of important probabilistic, logical and learning concept ...

**Keywords**: data mining, inductive logic programming, machine learning, multi-relational

data mining, probabilistic reasoning, uncertainty

**18** Beyond intratransaction association analysis: mining multidimensional intertransaction association rules
Hongjun Lu, Ling Feng, Jiawei Han
October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4
**Publisher:** ACM Press

Full text available: pdf(1.31 MB)　　Additional Information: full citation, abstract, references, citings, index terms

In this paper, we extend the scope of mining association rules from traditional single-dimensional intratransaction associations, to multidimensional intertransaction associations. Intratransaction associations are the associations among items with the same transaction, where the notion of the transaction could be the items bought by the same customer, the events happened on the same day, and so on. However, an intertransaction association ...

**Keywords**: association rules, data mining, intra/intertransaction, multidimensional context

**19** Parallel and distributed incremental attribute evaluation algorithms for multiuser software development environments
Gail E. Kaiser, Simon M. Kaplan
January 1993 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 2 Issue 1
**Publisher:** ACM Press

Full text available: pdf(3.09 MB)　　Additional Information: full citation, abstract, references, citings, index terms

The problem of change propagation in multiuser software development environments distributed across a local-area network is addressed. The program is modeled as an attributed parse tree segmented among multiple user processes and changes are modeled as subtree replacements requested asynchronously by individual users. Change propagation is then implemented using decentralized incremental evaluation of an attribute grammar that defines the static semantic properties of the p ...

**Keywords**: attribute grammar, change propagation, distributed, incremental algorithm, parallel, reliability

**20** Queries and aggregation: Cleaning and querying noisy sensors
Eiman Elnahrawy, Badri Nath
September 2003 **Proceedings of the 2nd ACM international conference on Wireless sensor networks and applications**
**Publisher:** ACM Press

Full text available: pdf(256.08 KB)　　Additional Information: full citation, abstract, references, citings, index terms

Sensor networks have become an important source of data with numerous applications in monitoring various real-life phenomena as well as industrial applications and traffic control. Unfortunately, sensor data is subject to several sources of errors such as noise from external sources, hardware noise, inaccuracies and imprecision, and various environmental effects. Such errors may seriously impact the answer to any query posed to the sensors. In particular, they may yield imprecise or even incorre ...

**Keywords**: bayesian theory, noisy sensors, query evaluation, statistics, uncertainty, wireless sensor networks

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